

#### ABSTRACT OF THE INVENTION

The invention relates to a method for the continuous synthesis of monoalkyl-hydrazines with a functionalized alkyl group. The inventive method is characterized in that it comprises a step consisting in demixing a solution containing the synthesized monoalkyl-hydrazine, by reacting an anhydrous amine with monochloramine, in an organic phase and an aqueous phase with the addition of anhydrous sodium hydroxide. The invention can be used to obtain perfect selectivity in relation to monoalkyl-hydrazine without the presence of the di- and tri-substituted forms thereof. According to the invention, the starting amine which has not reacted is collected and reused directly without any additional treatment.